

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in this application.

Listing of Claims:

1. (Previously Presented) A method for editing a decomposed original video sequence, said decomposed original video sequence comprising one or more original camera-motion layers and zero or more original fixed-frame layers decomposed from an original video sequence, comprising the step of:

editing at least one of said original camera-motion layers to obtain modified camera-motion layers such that each frame of a composite modified video sequence composed from said modified camera-motion layers and said original fixed-frame layers is obtained without editing each frame of said original video sequence,

wherein at least one modified camera-motion layer corresponds to an original camera-motion layer containing at least one substantially non-stationary component.

2. (Original) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the steps of:

converting one of said original camera-motion layers to an original image;

editing said original image to obtain a modified image; and

converting said modified image to one of said modified camera-motion layers.

3. (Original) A method as in claim 2, wherein said step of editing said original camera-motion layers further comprises the steps of:

rectifying said original image prior to editing said original image; and

rectifying said modified image prior to converting said modified image.

4. (Original) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

inserting a portion into, deleting a portion from, or changing a portion of one of said original camera-motion layers to obtain one of said modified camera-motion layers.

5. (Original) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

replacing one of said original camera-motion layers with another camera-motion layer to obtain one of said modified camera-motion layers.

6. (Original) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

adding a video sequence to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

7. (Original) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

adding an animation sequence to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

8. (Original) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

adding a three-dimensional object to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

9. (Original) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

adding a user-activated region to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

10. (Original) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

modifying an on/off time of one of said original camera-motion layers to obtain one of said modified camera-motion layers.

11. (Original) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

modifying an opaqueness of one of said original camera-motion layers to obtain one of said modified camera-motion layers.

12. (Original) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

modifying fade-in/fade-out of one of said original camera-motion layer to obtain one of said modified camera-motion layers.

13. (Original) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

modifying an ordering of one of said original camera-motion layers with respect to other layers of said decomposed original video sequence to obtain said modified camera-motion layers.

14. (Previously Presented) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

deleting one of said original camera-motion layers of said decomposed original video sequence.

15. (Original) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

adding another camera-motion layer to said decomposed original video sequence, such that an ordering of said original camera-motion layers with respect to other layers of said decomposed original video sequence is modified to obtain said modified camera-motion layers.

16. (Original) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

modifying a size of one of said original camera-motion layer to obtain one of said modified camera-motion layer.

17. (Original) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

editing camera motion parameters of one of said original camera-motion layer to obtain modified camera motion parameters.

18. (Original) A method as in claim 17, wherein said step of editing camera motion parameters comprises the step of:

adjusting at least one of said camera motion parameters to obtain said modified camera

motion parameters.

19. (Original) A method as in claim 17, wherein said step of editing camera motion parameters comprises the step of:

replacing said camera motion parameters with analytically-derived camera motion parameters to obtain said modified camera motion parameters.

20. (Original) A method as in claim 17, wherein said step of editing camera motion parameters comprises the step of:

replacing said camera motion parameters with camera motion parameters from another video sequence to obtain said modified camera motion parameters.

21. (Currently Amended) A method as in claim 1, wherein said decomposed original video sequence contains one or more fixed-frame layers, the method further comprising the step of:

editing at least one of said original fixed-frame layers to obtain at least one modified fixed-frame layers.

22. (Original) A method as in claim 21, wherein said step of editing said original fixed-frame layers comprises the steps of:

converting one of said original fixed-frame layers to an original image;
editing said original image to obtain a modified image; and
converting said modified image to one of said modified fixed-frame layers.

23. (Original) A method as in claim 22, wherein said step of editing said original fixed-frame layers further comprises the steps of:

rectifying said original image prior to editing said original image; and
rectifying said modified image prior to converting said modified image.

24. (Original) A method as in claim 21, wherein said step of editing said original fixed-frame layers comprises the step of:

adding camera motion parameters to at least one of said original fixed-frame layers.

25. (Original) A computer comprising software to perform the method of claim 1.

26. (Original) A computer-readable medium comprising software to perform the method of claim 1.

27. (Previously Presented) An apparatus for editing a decomposed original video sequence, said decomposed original video sequence comprising one or more original camera-

motion layers and zero or more original fixed-frame layers decomposed from an original video sequence, comprising:

means for editing at least one of said original camera-motion layers to obtain modified camera-motion layers such that each frame of a composite modified video sequence composed from said modified camera-motion layers and said original fixed-frame layers is obtained without editing each frame of said original video sequence,

wherein at least one modified camera-motion layer corresponds to an original camera-motion layer containing at least one substantially non-stationary component.

28. (Original) An apparatus as in claim 27, further comprising:

means for editing at least one of said original fixed-frame layers to obtain modified fixed-frame layers.

29. (Previously Presented) An apparatus for editing an original video sequence, comprising:

an object-based video encoder to decompose said original video sequence into a decomposed original video sequence, said decomposed original video sequence comprising one or more original camera-motion layers and zero or more original fixed-frame layers;

a video editor to edit at least one of said original camera-motion layers to obtain a decomposed modified video sequence, wherein at least one original camera-motion layer edited

by said video editor contains at least one substantially non-stationary component; and

an object-based video compositor to compose said decomposed modified video sequence to obtain a composite modified video sequence, wherein each frame of said composite modified video sequence is obtained without editing each frame of said original video sequence.